Bachelor of Science in Biology

Curriculum Guide

Fall 2016/Spring 2017

To determine fulfillment of requirements for graduation, consult the department to certify major requirements and the registrar to certify the core requirements.

MAJOR REQUIREMENTS

I. Foundation Courses

- BIO 145 Foundations of Bio 4 _____/_____/

And one of the following four systematics courses:

- BIO 262 Animal Systematics
- BIO 222 Entomology 4 _____/_____/
- BIO 263 Plant Systematics
- BIO 212 Microbiology

II. Breadth in the Discipline of Biology

- BIO 290 Cell Biology 4 _____/_____/
- BIO 322 Genetics 4 _____/_____/
- BIO 342 Biostatistics and Research Methods 4 _____/_____/
- BIO 392 General Ecology 4 _____/_____/

And one of the following two courses:

- BIO 350 Immunology 3 _____/_____/
- BIO 399 Molecular Biology 4 _____/_____/

Students must choose one elective based on availability and intent. The elective must be a 200 or 300 level BIO course that is 4 credits or NSCI 202, 209, or 315.

- BIO XXX Elective 4 _____/_____/

Note: Courses applied as fundamental courses may not also be applied as breadth in the discipline courses.

III. Senior Capstone Experience

- BIO 395 Junior Research Seminar 1 _____/_____/
- BIO 462 Senior Seminar 2 _____/_____/

And one of the following two courses:

- BIO 452 Advanced Biology 2 min. _____/_____/
- BIO 482 Independent Study

Note: A completed research project under the supervision of a biology department faculty member is required of the student majoring in biology. The project is culminated with a formal scientific research paper and formal oral presentation. See the biology chair for specific requirements of the research project.

IV. Related Math and Science Courses

- MATH 181 Calculus I 4 _____/_____/
- CHEM 140 General Chemistry I 4 _____/_____/
- CHEM 160 General Chemistry II 4 _____/_____/
- CHEM 200 Organic Chemistry I 4 _____/_____/
- CHEM 210 Organic Chemistry II 4 _____/_____/
- CHEM 345 Biochemistry I 4 _____/_____/

Note: All courses taken for the major in biology must be passed with a grade of C or better.